



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,907	02/20/2004	Hyoung-jun Park	Q78876	5310
23373 7590 11/26/2008				
SUGHRUE MION, PLLC				
2100 PENNSYLVANIA AVENUE, N.W.				
SUITE 800				
WASHINGTON, DC 20037				
EXAMINER				
CERULLO, JEREMY S				
ART UNIT		PAPER NUMBER		
2111				
MAIL DATE		DELIVERY MODE		
11/26/2008		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**Office Action Summary****Application No.**

10/781,907

**Applicant(s)**

PARK, HYOUNG-JUN

**Examiner**

Jeremy S. Cerullo

**Art Unit**

2111

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 September 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) 10-14 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/CDC)
- Paper No(s)/Mail Date \_\_\_\_\_

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

1. Claims 1-14 are pending in the following action, with Claims 10-14 withdrawn from consideration.

### ***Response to Arguments***

2. Applicant's arguments filed 23 September 2008 have been fully considered but they are not persuasive. As stated in the previous action, based upon Applicant's arguments the examiner understands that the invention which Applicant intends to be claimed is plug and a receptacle combined into one inseparable unit, the breadth of the current claim language presented for consideration does not clearly require that interpretation. It is well settled that limitations argued are not read into the claims where the plain language of the claims provides for a broader interpretation. Applicant has sufficient opportunity to amend the claim language to be consistent with the desired interpretation during prosecution. The teachings of Kao in view of what is old and well known in the art teach the limitations of a plug and a receptacle combining as a connector, with the plug being inserted into the receptacle. The claims as written do not require that the plug component and receptacle component are connected via an interface other than the plug and receptacle. As written the claims could be interpreted as requiring that the plug component is inserted into the receptacle, and that being the

Art Unit: 2111

only connection between the two. Therefore, the previously applied rejections under 35 USC 103 are maintained.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication No. 2004/0033726 ("Kao") in view of what is old and well known in the art.

5. As for Claim 1, Kao teaches a card type USB connector (Figure 13) comprising a card type plug having a plurality of pins on top of the plug body and a card type receptacle for receiving the card type plug comprising a plurality of receptacle pins corresponding to the pins on the plug body. Kao does not explicitly teach that the pins are electrically turned on or off according to the contact between the plug and receptacle, but the examiner takes OFFICIAL NOTICE that it is old and well known in the art that USB signal pins are not electrically active until a power circuit as been

completed, and that does not occur until the USB power rails connect with each other in the plug and the receptacle.

6. As for Claim 2, Kao further teaches that the plug and receptacle are polygonal in shape (Figure 13).

7. As for Claims 4-5 and 7-8, Kao teaches the USB card type having a card type plug with a plurality of pins on top of the plug body and a card type receptacle for receiving the card type plug comprising a plurality of receptacle pins corresponding to the pins on the plug body. However, Kao does not teach an adapter to convert from the USB card type to USB type A or USB type B. The examiner takes OFFICIAL NOTICE that it is notoriously well known in the art that one electrical standard may have multiple types of connectors and it is necessary to provide for a way of physically converting one of the connectors via an adapter to match the other. It would have been obvious to one of ordinary skill in the art at the time of the invention to have manufactured an adapter to convert a card type USB connection as taught by Kao to a standard USB type A or type B connection to allow for communication between devices that utilize different connector types.

8. As for Claims 3, 6, and 9, Kao further teaches that the plug has guide projections to block a reverse insertion into the receptacle (Figures 8-10).

### ***Conclusion***

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeremy S. Cerullo whose telephone number is (571)272-3634. The examiner can normally be reached on Monday - Thursday, 8:00-4:00; Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (571) 272-3632. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2111

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. C./  
Examiner, Art Unit 2111

/MARK RINEHART/  
Supervisory Patent Examiner, Art Unit 2111